

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

1. (Currently Amended) A method of wireless communication comprising:

evaluating a reverse link loading by examining at least two resources within a first time period wherein the evaluating includes selecting at least a first threshold by which at least a first of the at least two resources is evaluated, based on the examination of at least a second of the at least two resources, wherein evaluating further comprises at least one of: examining the at least two resources in use and examining the at least two resources leftover, wherein the at least two resources examined comprise at least one of a sector loading; total interference; received signal strength indication rise, per-leg and per-call frame error rate, physical channel erasure statistics and distributions, filtered loading estimate, transmit power and power control outer-loop set point compared to received E_{cp}/N_t , wherein evaluating a reverse link loading comprises computing the sector loading by measuring energy in a pilot signal over total noise, DRC values, channel gain and used Walsh code space and the received signal strength indication rise corresponds with a total received power at a sector, with a noise floor and with at least the first threshold, which varies to minimize adverse control reactions; and

broadcasting an availability of resources message in response to the evaluated reverse link loading.

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Currently Amended) The method of Claim [[4]]1, comprising:
sampling a received signal strength indication; and
calculating a noise floor and the received signal strength indication rise in

response to the sampling received signal strength indication.

6. (Currently Amended) The method of Claim 1, further comprising changing a longest idle user to at least one of inactive status and dormant status if a sector state is above a slow control threshold.

7. (Previously Presented) The method of Claim 6, further comprising at least one of:

inactivating a user with a maximum number of bytes transferred if all users are active; and

changing an access resistance timer if all users are not at least one of active idle and having a maximum number of bytes transferred.

8. (Original) The method of claim 7, wherein the access resistance timer determines if subsequent access attempts by a user after a previous attempt failed.

9. (Currently Amended) The method of Claim 31, wherein the availability of resources message corresponds with at least one of an overload condition, increasing a number of active connections, maintaining the number of active connections, decreasing the number of active connections, increasing an available transmit rate, maintaining the available transmit rate and decreasing the available transmit rate.

10. (Original) The method of Claim 9, wherein the availability of resources message comprises a reverse activity bit.

11. (Original) The method of Claim 9, comprising controlling the reverse link by at least one of:

managing a traffic channel in response to an average of the received signal strength indication rise and the filtered loading estimate; and

managing the number of active connections in response to the average of the received signal strength indication rise and the filtered loading estimate.

12. (Original) The method of Claim 9, comprising:

determining an available transmit rate in response to examining the at least two resources associated with the reverse link within a second time period, the second time period being an order of magnitude greater than the first time period.

13. (Currently Amended) A wireless communication system comprising:

a detector for evaluating a reverse link loading by examining at least two resources within a first time period wherein the evaluating includes selecting at least a first threshold by which at least a first of the at least two resources is evaluated, based on the examination of at least a second of the at least two resources, wherein the detector performs at least one of examining the resources in use within the first time period and examining the resources leftover within the first time period, and the at least two resources examined comprise at least one of a sector loading, total interference, received signal strength indication rise, local and global frame error rate and distribution, filtered loading estimate, transmit power, received E_{cp}/N_t , received E_b/N_t , and power control outer-loop set point and wherein the detector computes the sector loading by measuring energy in a pilot signal over total noise, DRC values, channel gain and used Walsh code space and the received signal strength indication rise corresponds with a total received power at a sector, with a noise floor and with at least the first threshold, which varies to minimize adverse control reactions; and

a controller for controlling the reverse link loading by broadcasting an availability of resources message in response to the evaluated reverse link loading.

14. (Canceled)

15. (Canceled)

16. (Currently Amended) The wireless communication system of Claim 4513, comprising:

a sampler for sampling a received signal strength indication; and

a calculator for calculating a noise floor and the received signal strength indication rise in response to the sampling received signal strength indication.

17. (Currently Amended) The wireless communication system of Claim [[14]]13, wherein the availability of resources message corresponds with at least one of an overload condition, increasing a number of active connections, decreasing the number of active connections, increasing an available transmit rate, maintaining the available transmit rate and decreasing the available transmit rate.

18. (Original) The wireless communication system of Claim 17, wherein the availability of resources message comprises a reverse activity bit.

19. (Original) The wireless communication system of Claim 17, comprising:

a controller for managing the reverse link by at least one of:

controlling a traffic channel transmission rate in response to a relatively short term average of the received signal strength indication rise and the filtered loading estimate; and

controlling the number of active connections in response to a relatively long term average of the received signal strength indication rise and the filtered loading estimate.

20. (Original) The wireless communication system of Claim 17, wherein the detector determines an available transmit rate in response to examining the at least two resources associated with the reverse link within a second time period, the second time period being an order of magnitude greater than the first time period.

21. (Currently Amended) A method of wireless communication over a reverse link comprising:

determining a loading on the reverse link wherein the determining includes selecting at least a first threshold by which at least a first of the at least two resources is evaluated, based on an examination of at least a second of the at least two resources, wherein the at least two resources examined comprise at least one of a sector loading, total interference, received signal strength indication rise, per-leg and per-call frame error rate, physical channel erasure statistics and distributions, filtered loading estimate, transmit power and power control outer-loop set point

compared to received E_{cp}/N_t and wherein evaluating the reverse link loading comprises computing the sector loading by measuring energy in a pilot signal over total noise, DRC values, channel gain and used Walsh code space and the received signal strength indication rise corresponds with a total received power at a sector, with a noise floor and with at least the first threshold, which varies to minimize adverse control reactions;

managing the reverse link loading in response to the determined reverse link loading by at least one of controlling a traffic channel data rate and controlling a number of active connections; and

broadcasting an availability of resources message in response to the determined reverse link loading.

22. (Canceled)

23. (Currently Amended) The method of Claim 21, wherein ~~the step of controlling a~~ the traffic channel data rate comprises a relatively faster control of the traffic channel data rate and ~~the step of~~ controlling a number of active connections comprises a relatively slower control.

24. (Original) The method of Claim 23, wherein the managing the reverse link loading is performed in response to an average of a rise in a received signal strength indication and filtered loading estimation, the average comprising at least one of a relatively shorter term and a relatively longer term average.

25. (Currently Amended) The method of Claim 21, wherein the step of determining a loading on the reverse link comprises:

sampling the received signal strength indication rise; and

calculating a noise floor and the rise in the signal strength indication rise in response to the sampling of the received signal strength indication.